```
     FILE 'REGISTRY' ENTERED AT 10:21:39 ON 25 MAY 2001
                E THIOTAURINE/CN
L1              1 S E3

     FILE 'STNGUIDE' ENTERED AT 10:22:04 ON 25 MAY 2001

     FILE 'USPATFULL, HCAPLUS' ENTERED AT 10:22:47 ON 25 MAY 2001
L2             84 S THIOTAURINE OR 2937-54-4/RN OR ((AMINOETHANESULFONOTHIOIC
OR
L3           5615 S 424/401/NCL OR 424/59/NCL OR 424/60/NCL OR 424/61/NCL OR
424/
L4         304232 S COSMETIC? OR DERMATOLOGIC? OR LOTION OR CREAM OR CREME OR
OIN
L5         952051 S ANTIOXIDANT OR OXIDATION
L6             22 S L2 AND L5
L7              7 S L6 AND L4
L8              0 S L7 AND PY<1997
L9              1 S L7 AND PY<1998
L10             6 S L7 NOT L9
L11             3 S L10 AND PY<1999
L12             3 S L10 NOT L11
L13             3 S L6 AND L3
L14             0 S L13 NOT L7
L15            15 S L6 NOT L7
L16            13 S L15 AND PY<1997
L17             2 S L15 NOT L16
L18         31370 S CHEMILUMINESCENCE OR CHEMILUMINESCENT
L19             2 S L2 AND L18
L20            19 S ((AMINOETHYLSULFINIC OR AMINOETHYLSULPHINIC) (3A) ACID) OR
AM
L21            13 S L20 NOT L2
L22             0 S L21 AND L18
L23             5 S L21 AND L5
L24             1 S L23 AND L3
L25             4 S L23 NOT L24
L26             1 S L25 AND L4
L27             3 S L25 NOT L26
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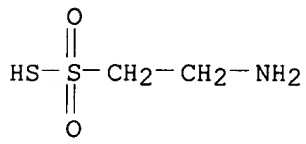
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN 2937-54-4 REGISTRY
CN Ethanesulfonothioic acid, 2-amino- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Taurine, thio- (6CI, 7CI, 8CI)
OTHER NAMES:
CN **Thiotaurine**
FS 3D CONCORD
MF C2 H7 N O2 S2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CHEMLIST, EMBASE, MEDLINE, PROMT, TOXLIT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



36 REFERENCES IN FILE CA (1967 TO DATE)
36 REFERENCES IN FILE CAPLUS (1967 TO DATE)
28 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

Ordered from STC
5/25/01

L11 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:26105 HCAPLUS
DOCUMENT NUMBER: 130:100335
TITLE: Development and application of sebum **antioxidant thiotaurine** for **cosmetics**
AUTHOR(S): Kohno, Yoshiyuki
CORPORATE SOURCE: Shiseido Basic Res. Cent., Shiseido Co., Ltd., Yokohama, 223-8553, Japan
SOURCE: Fragrance J. (**1998**), 26(12), 9-14
CODEN: FUJAD7; ISSN: 0288-9803
PUBLISHER: Fureguransu Janaru Sha
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese

AB A review with 10 refs., on moisturizing capacity, anti-oxidative effects, and stability of **thiotaurine**, and its usefulness as an ingredient for **skin care** products preventing sebum **oxidn.**, skin troubles, and skin aging.

TI Development and application of sebum **antioxidant thiotaurine** for **cosmetics**

SO Fragrance J. (**1998**), 26(12), 9-14
CODEN: FUJAD7; ISSN: 0288-9803

AB A review with 10 refs., on moisturizing capacity, anti-oxidative effects, and stability of **thiotaurine**, and its usefulness as an ingredient for **skin care** products preventing sebum **oxidn.**, skin troubles, and skin aging.

ST review **thiotaurine** sebum **antioxidant cosmetic**

IT Antiaging **cosmetics**
Antioxidants
Sebum
Skin conditioners
(development and application of sebum **antioxidant thiotaurine** for **cosmetics**)

IT Skin
(**oxidn.** in; development and application of sebum **antioxidant thiotaurine** for **cosmetics**)

IT **2937-54-4, Thiotaurine**
RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(development and application of sebum **antioxidant thiotaurine** for **cosmetics**)

L17 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:548253 HCAPLUS
DOCUMENT NUMBER: 127:216249
TITLE: Cigarette smoke induced lipid peroxidation and its oxidative effect on the skin
AUTHOR(S): Egawa, Mariko; Yamashita, Toyonobu; Kohno, Yoshiyuki; Sakamoto, Tetsuo; Ito, Kenzo; Kumano, Yoshimaru
CORPORATE SOURCE: Shiseido Res. Cent., Yokohama-shi, Japan
SOURCE: Sci. Conf. Asian Soc. Cosmet. Sci., 3rd (1997), 271-278. Asian Societies of Cosmetic Scientists: Taichung, Taiwan.
CODEN: 64XSAZ
DOCUMENT TYPE: Conference
LANGUAGE: English
CLASSIFICATION: 4-7 (Toxicology)
ABSTRACT:

The oxidative effects of cigarette smoke on the human skin were investigated. Using a CL-HPLC (HPLC with a chemiluminescence detector) system, a remarkable increase in the conversion ratio of squalene (SQ) to squalene hydroperoxide (SQHPO) due to exposure to cigarette smoke was obsd. This showed that cigarette smoke caused lipid peroxidn. However the authors found that the addn. of chain-breaking-type **antioxidants**, such as dl-.alpha.-tocopherol and tannin, inhibited the peroxidn. When cultured human fibroblasts were exposed to cigarette smoke, this increased the intensity of ultraweak chemiluminescence (CL), leading us to assume that cigarette smoke caused peroxidn. in cultured human fibroblasts. When the cultured human fibroblasts were treated with **antioxidants**, there was little increase in CL, meaning that peroxidn. had been prevented in the fibroblasts. The authors also exposed the human forehead and inside of the forearm to cigarette smoke and obtained sebum using cotton immersed in acetone in order to measure peroxide levels by means of a CL-HPLC system. The cigarette smoke caused a dose-dependent increase in peroxides. Exposing the forearm to cigarette smoke increased the chemiluminescence and pretreating the skin with ***antioxidants*** inhibited this increase, thus peroxidn. was prevented. From this, the authors concluded that cigarette smoke had an oxidative effect on SQ, cultured human fibroblasts and the surface of the human skin. The authors found that the application of **antioxidants** prevented the cigarette smoke-induced **oxidn.** The authors consider that these oxidative effects on the skin can be a cause of skin disorders and skin aging, for example wrinkling.

SUPPL. TERM: cigarette smoke lipid peroxidn skin; oxidative stress tobacco smoke skin lipoperoxidn
INDEX TERM: **Antioxidants**
Fibroblast
Lipid peroxidation
Oxidative stress (biological)
Sebum
Skin
Tobacco smoke
(cigarette smoke induced lipid peroxidn. and its oxidative effect on human skin)
INDEX TERM: Tannins
ROLE: BAC (Biological activity or effector, except adverse);
BPR (Biological process); BIOL (Biological study); PROC (Process)
(cigarette smoke induced lipid peroxidn. and its oxidative effect on human skin)

INDEX TERM: Arm
(forearm; cigarette smoke induced lipid peroxidn. and its oxidative effect on human skin)

INDEX TERM: Head
(forehead; cigarette smoke induced lipid peroxidn. and its oxidative effect on human skin)

INDEX TERM: 50-81-7, Ascorbic acid, biological studies 59-02-9, .alpha.-Tocopherol 68-94-0, Hypoxanthine 70-18-8, Glutathione, biological studies **2937-54-4, Thiotaurine**
ROLE: BAC (Biological activity or effector, except adverse); BPR (Biological process); BIOL (Biological study); PROC (Process)
(cigarette smoke induced lipid peroxidn. and its oxidative effect on human skin)